

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/526,072  
Source: PG  
Date Processed by STIC: 1/26/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/526,072

TIME: 08:55:55

Input Set : A:\PCT.JP2003.010923 (Sequence Listing).txt

Output Set: N:\CRF4\01262006\J526072.raw

3 <110> APPLICANT: Juridical Foundation The Chemo-Sero-Therapeutic Research Institute

W--> 4 <120> TITLE OF INVENTION: Human anti-human interleukin-6 antibody and fragment thereof

W--> 5 <130> FILE REFERENCE: 663984

C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/526,072

C--> 6 <141> CURRENT FILING DATE: 2005-02-28

6 <150> PRIOR APPLICATION NUMBER: JP 2002-253036

7 <151> PRIOR FILING DATE: 2002-08-30

W--> 8 <160> NUMBER OF SEQ ID: 10

10 <210> SEQ ID NO: 1

11 <211> LENGTH: 351

12 <212> TYPE: DNA

13 <213> ORGANISM: Homo sapiens

W--> 14 <400> SEQUENCE: 1

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15 cag gtc aac tta agg gag tct ggg gga gac ttg gtc aag ccc gga ggg      48
16 Gln Val Asn Leu Arg Glu Ser Gly Gly Asp Leu Val Lys Pro Gly Gly
17           5           10           15
18 tcc cta aga ctc tca tgt gca gcc tct gga ttc acc ttc aga aag tat      96
19 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Lys Tyr
20           20           25           30
21 tac atg gcc tgg atc cgc cag gct cca ggg aag ggg ccg gag tgg ctt      144
22 Tyr Met Ala Trp Ile Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Leu
23           35           40           45
24 tca acc att agt aac agc ggt gat atc ata gac tat gca gac tct gtg      192
25 Ser Thr Ile Ser Asn Ser Gly Asp Ile Ile Asp Tyr Ala Asp Ser Val
26           50           55           60
27 agg ggc cgg ttc tcc atc tcc agg gac aat gcc cag aag tca ctg tat      240
28 Arg Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Gln Lys Ser Leu Tyr
29 65           70           75           80
30 ctg caa atg acc tcc ctg aga ccc gac gac tcg gcc atc tat tac tgt      288
31 Leu Gln Met Thr Ser Leu Arg Pro Asp Asp Ser Ala Ile Tyr Tyr Cys
32           85           90           95
33 gcg agg gaa tat ttc ttt tct ttt gat gtg tgg ggc cga ggg aca atg      336
34 Ala Arg Glu Tyr Phe Phe Ser Phe Asp Val Trp Gly Arg Gly Thr Met
35           100          105          110
36 gtc acc gtc tcc tca                                     351
37 Val Thr Val Ser Ser
38           115

```

40 <210> SEQ ID NO: 2

41 <211> LENGTH: 117

42 <212> TYPE: PRT

43 <213> ORGANISM: Homo sapiens

W--> 44 <400> SEQUENCE: 2

45 Gln Val Asn Leu Arg Glu Ser Gly Gly Asp Leu Val Lys Pro Gly Gly

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```

46          5          10          15
47 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Lys Tyr
48          20          25          30
49 Tyr Met Ala Trp Ile Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Leu
50          35          40          45
51 Ser Thr Ile Ser Asn Ser Gly Asp Ile Ile Asp Tyr Ala Asp Ser Val
52          50          55          60
53 Arg Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Gln Lys Ser Leu Tyr
54 65          70          75          80
55 Leu Gln Met Thr Ser Leu Arg Pro Asp Asp Ser Ala Ile Tyr Tyr Cys
56          85          90          95
57 Ala Arg Glu Tyr Phe Phe Ser Phe Asp Val Trp Gly Arg Gly Thr Met
58          100          105          110
59 Val Thr Val Ser Ser
60          115

```

62 &lt;210&gt; SEQ ID NO: 3

63 &lt;211&gt; LENGTH: 324

64 &lt;212&gt; TYPE: DNA

65 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 66 &lt;400&gt; SEQUENCE: 3

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67 gac atc gtg atg acc cag tct cca tct tct gtg tct gca tcg gtg gga      48
68 Asp Ile Val Met Thr Gln Ser Pro Ser Val Ser Ala Ser Val Gly
69          5          10          15
70 gac aga gtc acc atc ttt tgt cgg gcg agt cag gat att agg aat tgg      96
71 Asp Arg Val Thr Ile Phe Cys Arg Ala Ser Gln Asp Ile Arg Asn Trp
72          20          25          30
73 gta gcc tgg tat caa cag aaa cca ggt gag gcc cct aaa tta ttg atc     144
74 Val Ala Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile
75          35          40          45
76 tat gat gga tcg agt ttg caa agt ggg gtc cca tca agg ttc agc ggc     192
77 Tyr Asp Gly Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
78          50          55          60
79 agt gga tct ggg aca gaa ttc act ctc aca atc agc agc ctg cag cct     240
80 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
81 65          70          75          80
82 gaa gat ttt gca act tac tac tgt caa cag agt gac agt acc cct att     288
83 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asp Ser Thr Pro Ile
84          85          90          95
85 acc ttc ggc caa ggg aca cga ctg gag att aaa cgt                      324
86 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
87          100          105

```

89 &lt;210&gt; SEQ ID NO: 4

90 &lt;211&gt; LENGTH: 108

91 &lt;212&gt; TYPE: PRT

92 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 93 &lt;400&gt; SEQUENCE: 4

```

94 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
95          5          10          15
96 Asp Arg Val Thr Ile Phe Cys Arg Ala Ser Gln Asp Ile Arg Asn Trp

```

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```

97          20          25          30
98 Val Ala Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile
99          35          40          45
100 Tyr Asp Gly Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
101          50          55          60
102 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
103 65          70          75          80
104 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asp Ser Thr Pro Ile
105          85          90          95
106 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
107          100          105

```

109 &lt;210&gt; SEQ ID NO: 5

110 &lt;211&gt; LENGTH: 5

111 &lt;212&gt; TYPE: PRT

112 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 113 &lt;220&gt; FEATURE:

114 &lt;223&gt; OTHER INFORMATION: CDR1 corresponding to amino acids No. 31 to No. 35 in SEQ ID NO: 2

W--&gt; 115 &lt;400&gt; SEQUENCE: 5

116 Lys Tyr Tyr Met Ala

117 1 5

119 &lt;210&gt; SEQ ID NO: 6

120 &lt;211&gt; LENGTH: 17

121 &lt;212&gt; TYPE: PRT

122 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 123 &lt;220&gt; FEATURE:

124 &lt;223&gt; OTHER INFORMATION: CDR2 corresponding to amino acids No. 50 to No. 66 in SEQ ID NO: 2

W--&gt; 125 &lt;400&gt; SEQUENCE: 6

126 Thr Ile Ser Asn Ser Gly Asp Ile Ile Asp Tyr Ala Asp Ser Val Arg Gly

127 1 5 10 15

129 &lt;210&gt; SEQ ID NO: 7

130 &lt;211&gt; LENGTH: 8

131 &lt;212&gt; TYPE: PRT

132 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 133 &lt;220&gt; FEATURE:

134 &lt;223&gt; OTHER INFORMATION: CDR3 corresponding to amino acids No. 99 to No. 106 in SEQ ID NO: 2

W--&gt; 135 &lt;400&gt; SEQUENCE: 7

136 Glu Tyr Phe Phe Ser Phe Asp Val

137 1 5

139 &lt;210&gt; SEQ ID NO: 8

140 &lt;211&gt; LENGTH: 11

141 &lt;212&gt; TYPE: PRT

142 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 143 &lt;220&gt; FEATURE:

144 &lt;223&gt; OTHER INFORMATION: CDR1 of corresponding to amino acids No. 24 to No. 34 in SEQ ID NO: 4

W--&gt; 145 &lt;400&gt; SEQUENCE: 8

146 Arg Ala Ser Gln Asp Ile Arg Asn Trp Val Ala

147 1 5 10

149 &lt;210&gt; SEQ ID NO: 9

150 &lt;211&gt; LENGTH: 7

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Input Set : A:\PCT.JP2003.010923 (Sequence Listing).txt

Output Set: N:\CRF4\01262006\J526072.raw

151 &lt;212&gt; TYPE: PRT

152 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 153 &lt;220&gt; FEATURE:

154 &lt;223&gt; OTHER INFORMATION: CDR2 corresponding to amino acids No. 50 to No.

56 in SEQ ID NO: 4

W--&gt; 155 &lt;400&gt; SEQUENCE: 9

156 Asp Gly Ser Ser Leu Gln Ser

157 1 5

159 &lt;210&gt; SEQ ID NO: 10

160 &lt;211&gt; LENGTH: 10

161 &lt;212&gt; TYPE: PRT

162 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 163 &lt;220&gt; FEATURE:

164 &lt;223&gt; OTHER INFORMATION: CDR3 corresponding to amino acids No. 89 to No.

98 in SEQ ID NO: 4

W--&gt; 165 &lt;400&gt; SEQUENCE: 10

166 Gln Gln Ser Asp Ser Thr Pro Ile Thr Phe

167 1 5 10

## VERIFICATION SUMMARY

DATE: 01/26/2006

PATENT APPLICATION: US/10/526,072

TIME: 08:55:56

Input Set : A:\PCT.JP2003.010923 (Sequence Listing).txt

Output Set: N:\CRF4\01262006\J526072.raw

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L:5 M:283 W: Missing Blank Line separator, <130> field identifier  
L:6 M:270 C: Current Application Number differs, Replaced Current Application No  
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:8 M:283 W: Missing Blank Line separator, <160> field identifier  
L:14 M:283 W: Missing Blank Line separator, <400> field identifier  
L:44 M:283 W: Missing Blank Line separator, <400> field identifier  
L:66 M:283 W: Missing Blank Line separator, <400> field identifier  
L:93 M:283 W: Missing Blank Line separator, <400> field identifier  
L:113 M:283 W: Missing Blank Line separator, <220> field identifier  
L:115 M:283 W: Missing Blank Line separator, <400> field identifier  
L:123 M:283 W: Missing Blank Line separator, <220> field identifier  
L:125 M:283 W: Missing Blank Line separator, <400> field identifier  
L:133 M:283 W: Missing Blank Line separator, <220> field identifier  
L:135 M:283 W: Missing Blank Line separator, <400> field identifier  
L:143 M:283 W: Missing Blank Line separator, <220> field identifier  
L:145 M:283 W: Missing Blank Line separator, <400> field identifier  
L:153 M:283 W: Missing Blank Line separator, <220> field identifier  
L:155 M:283 W: Missing Blank Line separator, <400> field identifier  
L:163 M:283 W: Missing Blank Line separator, <220> field identifier  
L:165 M:283 W: Missing Blank Line separator, <400> field identifier